

### AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A computer implemented method for fault tolerance, load balance and failover of CORBA object servers, comprising the steps of:

establishing name service clusters for the object servers which each contain a unique object binding table that contains object server references; ~~invoking a cluster contained in a context;~~

in response to a request from a client that invokes a cluster,  
performing a load balance by having the name service ~~to~~ select an object server located in the invoked cluster;

appending a cluster component to the invoked cluster to provide failover upon failure of the object server;

forwarding a selected object reference to a client upon completion of the load balance; and

~~communicating~~ permitting the client to communicate with a the server associated with the selected object reference which was forwarded to the client,  
wherein the fault tolerance, the load balance and the failover are performed transparently.

2. The method of claim 1, said invoking step comprising the step of:

binding to the server using an IP Address and port number contained in the specific object reference.

3. (Currently Amended) A computer implemented method for fault tolerance, load balance and failover of CORBA object servers, comprising the steps of:

establishing name service clusters for the object servers which each contain a unique object binding table that contains object server references;

in response to a request from a client that invokes a cluster,

performing a load balance by having the name service select an object server located in the invoked cluster;

appending a cluster component to the invoked cluster to provide failover upon failure of the object server;

forwarding a selected object reference to a client upon completion of the load balance;

permitting the client to communicate with the server associated with the selected object reference which was forwarded to the client by binding to the server using an IP Address and port number contained in the specific object reference, wherein the fault tolerance, the load balance, and the failover are performed transparently. The method of claim 2, further comprising the steps of:

indicating to a user whether bind interceptors are in use;

providing the user with a class having relevant methods if bind interceptors are in use; and

specifying the class such that the class contains the most relevant methods, said specification being performed at a discretion of the user.

4. (Original) The method of claim 3, further comprising the steps of:

checking the bind interceptors if the object server fails; and

selecting an alternative server if a bind interceptor contains a predetermined method; said selection being performed by the user upon entry of the predetermined method by the user.

5. (Original) The method of claim 4, further comprising the steps of:

intercepting a cluster component of the object server which failed based on the bind interceptor;

invoking a load balance algorithm of the cluster via the bind interceptor to select and return a new object reference located in the cluster to the client; establishing communications with the client and a server of the new object





